# PATENT COOPERATION TREATY PCT

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#### INTERNATIONAL SEARCH REPORT

	(PCT Article 18 and Rules 43 a	ana 44)	CHECK
Applicant's or agent's file reference	FOR FURTHER ACTION	as well	see Form PCT/ISA/220 as, where applicable, item 5 below.
International application No.	International filing date (day/month	Vyear)	(Earliest) Priority Date (day/month/year)
PCT/GB2004/005400	24/12/2004		05/01/2004
Applicant			
1. Basis of the report  a. With regard to the language, the in language in which it was filed, unle	of a total of 6 she a copy of each prior art document cit she nternational search was carried out cass otherwise indicated under this ite	ets. ed in this r on the basi m.	
this Authority (Rule	e 23.1(b)).		n the international application, see Box No. 1.
		naciosed i	Tine international application, see box No. 1.
	id unsearchable (See Box II).		
3. X Unity of Invention is lack	ing (see Box III).		
4. With regard to the title,  the text is approved as substance  the text has been establish  THIOPHENE DERIVATIVES	ed by this Authority to read as follow	/S.	
5. With regard to the abstract,  the text is approved as sub the text has been establishmay, within one month from	ed, according to Rule 38.2(b), by this	s Authority nal search	as it appears in Box No. IV. The applicant report, submit comments to this Authority.
6. With regard to the drawings,			
	e applicant. Authority, because the applicant faile Authority, because this figure better	ed to sugge	est a figure.

International Application No PCT/GB2004/005400

IPC 7	C07D413/14 A61K31/495	C07D453/02 C07D417/14 A61K31/55	C07D333/38 A61K31/41 A61P35/00	CO7D409/14 A61K31/40	C07D413/12 A61K31/435
	to International Patent Class	sification (IPC) or to both	national classification ar	nd IPC	
	S SEARCHED  documentation searched (cla	ification system folion		halal	
IPC 7		ASSINCARON SYSTEM TOWN.	ved by Gassmooner, J		·
	ation searched other than mi				
	data base consulted during the nternal, WPI Dat		_	, where practical, search	terms used)
C. DOCUM	KENTS CONSIDERED TO B	SE RELEVANT			
Category *	Citation of document, with	h indication, where appr	ropriate, of the relevant p	assages	Relevant to claim No.
X	CORPORATION: CALLAHAN, JA 10 April 200	1 A (SMITHKLI ; PARRISH, CY AMES,) 03 (2003-04-1 e application	YNTHIA, A; 10)		1-36
X	CORPORATION: CALLAHAN, JA 10 April 200	1 A (SMITHKLI; PARRISH, CY AMES,) 03 (2003-04-1 e application	YNTHIA, A; LO)		1-36
Α		9 B1 (WOOD JI 2001 (2001-0 ocument			1-36
X Furth	ther documents are listed in t	the continuation of box (	c. X	Patent family members	are listed in annex.
"A" docume conside "E" earlier de filling de "L" documer which is citation "O" docume other m	ent which may throw doubts of is cited to establish the publion or other special reason (as ent referring to an oral disclos	e of the art which is not vance or after the international on priority claim(s) or lication date of another s specified) osure, use, exhibition or ernational filing date but	or cite inv "X" doc ca inv "Y" doc ca do me in i	r priority date and not in co ted to understand the prince vention cument of particular releva- tion to be considered novel volve an inventive step who cument of particular releva- tion to be considered to invention with	er the international filling date conflict with the application but ciple or theory underlying the ance; the claimed invention or cannot be considered to men the document is taken alone ance; the claimed invention volve an inventive step when the one or more other such document of patent family
Date of the a	actual completion of the inter	mational search	Dat	te of mailing of the interna	·
	0 June 2005				OS. <b>2005</b>
Name and m	nailing address of the ISA  European Patent Office,  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040  Fax: (+31-70) 340-3016	0, Tx. 31 651 epo ni,	ı	Fritz, M	

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International Application No
PCT/GB2004/005400

		PCT/GB2004/005400
-	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ROBBA M ET AL: "Synthèse d'intermédiaires de la thiazolo '4,5-d! pyridazine. II. Amides et hydrazides d'acides thiazole-carboxyliques" BULLETIN DE LA SOCIETE CHIMIQUE DE FRANCE, SOCIETE FRANCAISE DE CHIMIE. PARIS, FR, no. 6, 1969, pages 2152-2157, XP002234183 ISSN: 0037-8968 right col, 2nd, 3rd cpd. page 2155	1-3,24
<b>(</b>	CHILDRESS ET AL.: "Thiazolopyrimidines" J. AM. CHEM. SOC., vol. 73, no. 26, 1951, pages 3862-3864, XP002330773 right col. 2-Methylthiazole-4,5-dicarboxamide and 2-Phenylthiazole-4,5-dicarboxamide page 3863	1-3,24
	CHAUVIN ET AL.: "Synthesis of heterocyclic compounds from cyano- and dicyanoselephenes" COMPTES RENDUS DES SEANCES DE DES SCIENCES, SERIE C: SCIENCES CHIMIQUES, vol. 274, no. 14, 1972, pages 1347-1349, XP009048300 First reaction equation, second compound page 1348	1-3,24
•.		

International application No. PCT/GB2004/005400

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This Inte	rnational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
}	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
з. 🔲	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III	Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)
This Inte	rnational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1. <b>X</b>	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
з	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4 ;	No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark o	The additional search fees were accompanied by the applicant's protest.  X  No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (2)) (January 2004)

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7(part);8;9-10(part);11;12-31(part);32-36

Compounds (I) in which Y is CH, methods, compositions, and uses thereof, processes for their poduction, intermediates (XV), (XVI), (XI) and use of these intermediates

2. claims: 1-7(part);9-10(part);12-31(part)

Compounds (I) in which Y is nitrogen, methods, compositions and uses thereof

information on patent family members

International Application No
PCT/GB2004/005400

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 03028731	Α	10-04-2003	WO	03028731	A1	10-04-2003
WO 03029241	Α	10-04-2003	WO	03029241	A1	10-04-2003
us 6187799	B1	13-02-2001	US WO	2001006975 9852559		05-07-2001 26-11-1998